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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,042	10/02/2003	Mark H. Shipton	117313	6932
25944	7590	01/04/2006	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			KOEHLER, ROBERT R	
			ART UNIT	PAPER NUMBER
			1775	

DATE MAILED: 01/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/676,042

Applicant(s)

SHIPTON ET AL.

Examiner

Robert R. Koehler

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1775

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on October 19, 2005 (Amdt. & Remarks).
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 15-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 15-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

RRK.  
12-23-05

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 to 7 and 15 to 18 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,395,406 B1 (Sangeeta), the cited prior art of record.

Sangeeta discloses several methods for manufacturing a platinum-aluminum barrier coating on metal surfaces as well as metallic substrates having a platinum aluminide coating directly on the substrate. The platinum-aluminum coating is obtained by preparing a slurry containing the appropriate amounts of platinum metal particles, aluminum metal particles, solvent, and compatible additives. The metal-containing slurry can be applied to any portion of a metallic substrate by various methods such as brush-painting, dipping, and spraying. The metal-containing slurry can be applied in one application or at least two applications for the purpose of obtaining optimum adhesion of the metallic layer to the substrate. Sangeeta discloses the same process steps for manufacturing a platinum aluminide layer on a metallic substrate as claimed by the applicants (for example, producing a suitable metal-containing slurry, applying the slurry to a portion of a metallic substrate, heating the coated substrate to drive off most volatile components, and heat treating the coated substrate to form a distinct platinum aluminide coating on the substrate) with heating time ranges, heating temperature ranges, and a range of metal aluminide thickness values that also overlap applicants' claimed range limits for heating time, heating temperatures, and metal aluminide thickness values. See line 30 in column 3 to line 4 in column 5 and line 46 in column 5 to line 65 in column 7.

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Examples 1 to 14 (columns 8 to 11) disclose various metallic substrates having a platinum aluminide coating directly on the substrate.

### ***Response to Arguments***

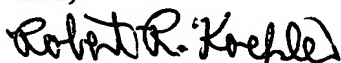
Applicant's arguments with respect to claims 1 to 7 and 15 to 18 have been considered but are moot in view of the new ground(s) of rejection. The Examiner has reconsidered the subject matter contained in U.S. Patent No. 6,395,406 B1 (Sangeeta), and believes that process claims 1 to 7 and 15 to 18 should be rejected because Sangeeta discloses the same platinum aluminide diffusion barrier on a metallic substrate (for example, a titanium-base substrate) as claimed by the applicants. Also, the Examiner respectfully suggests that line 3 of claim 1 (Previously Presented) be amended to delete the word "metallic" because claim 1 refers to a "titanium alloy" substrate.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Robert Koehler whose telephone number is (571) 272-1536. The Examiner can normally be reached on Tuesday to Friday from 9:30 AM to 7:00 PM. The Examiner can also be reached on alternate Mondays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Deborah Jones, can be reached on (571) 272-1535. The official Fax No. is (571) 273-8300, and the After-Final Fax No. is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**ROBERT R. KOEHLER  
PRIMARY EXAMINER**

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December 23, 2005**